User manual
search for suitable kidney recipient

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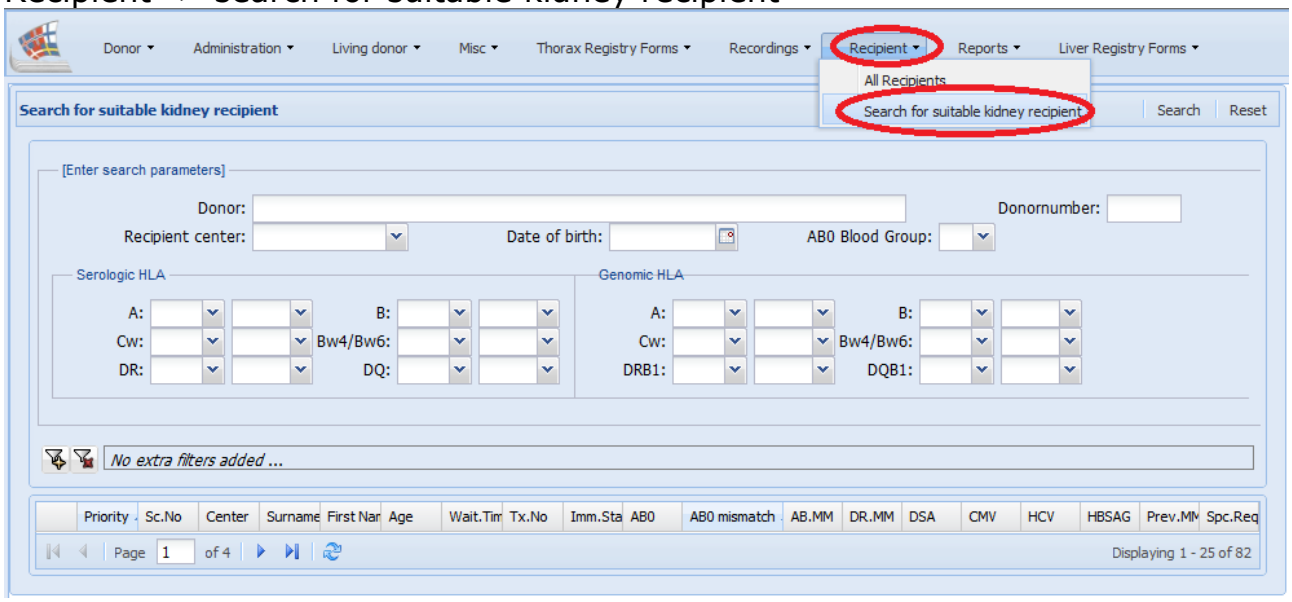
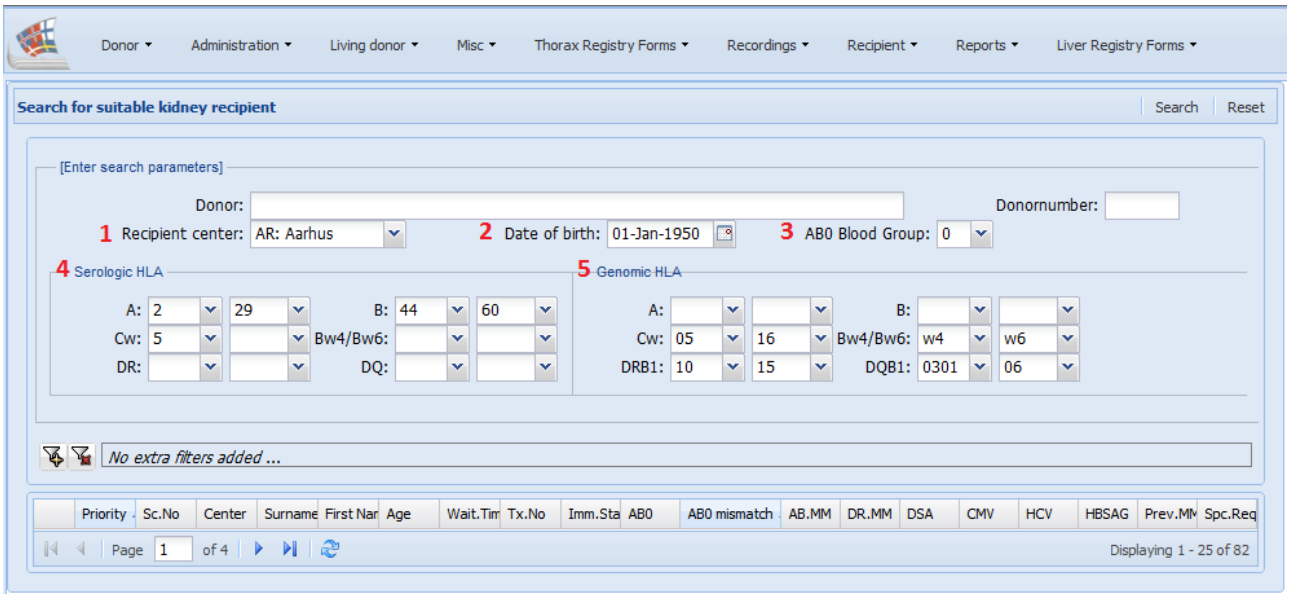
1. Find the menu 'search for suitable kidney recipient'

Recipient -> search for suitable kidney recipient

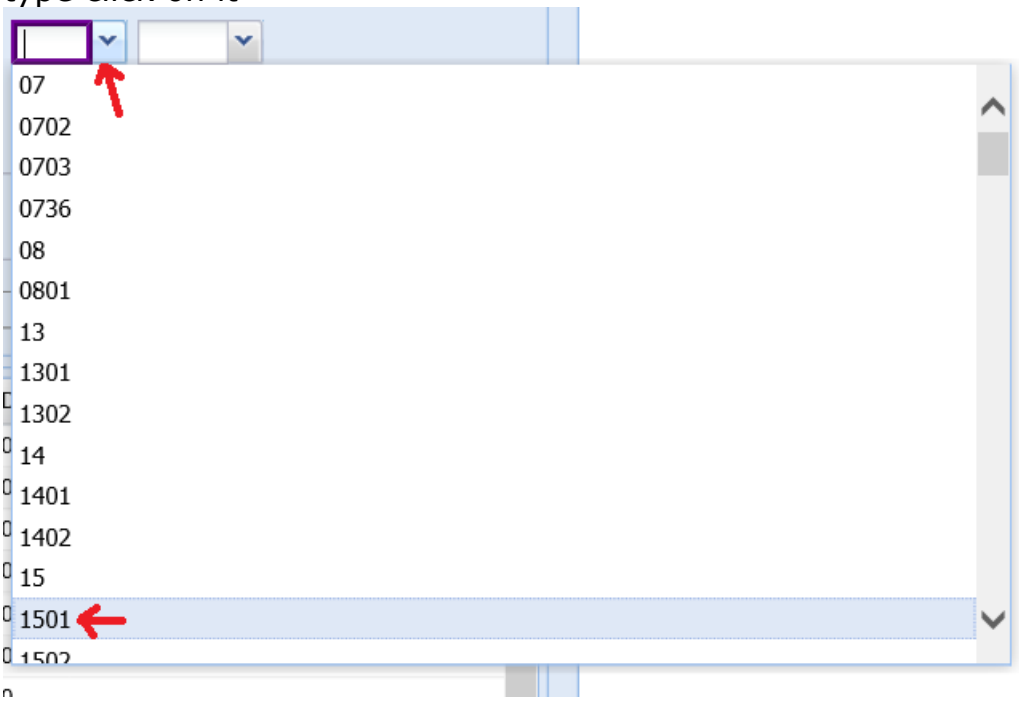


2. Search information – donor not already registered

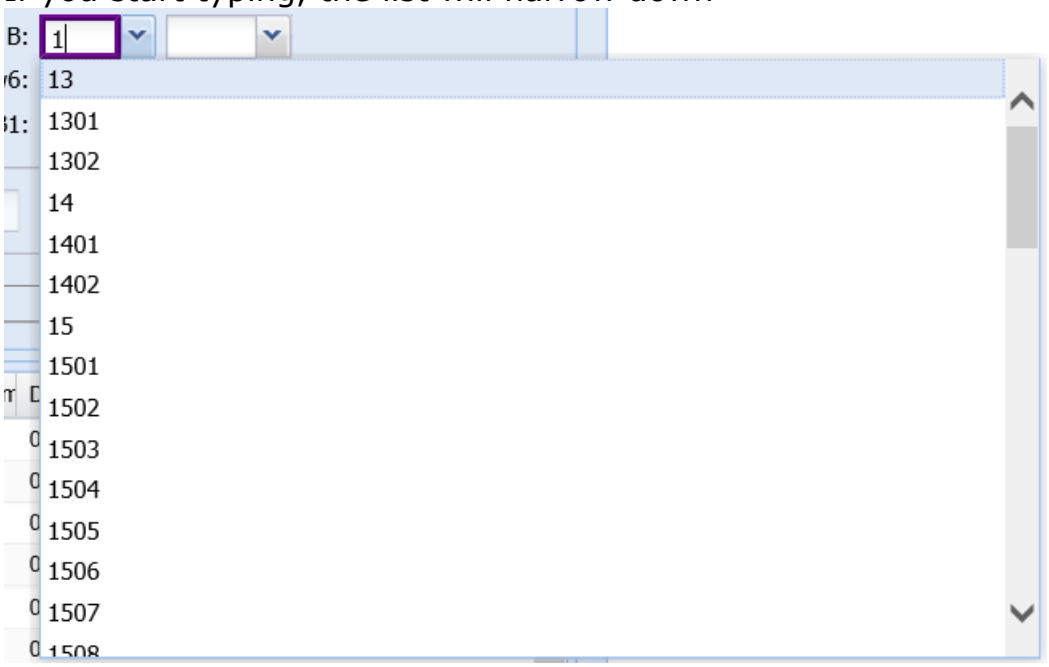


1. Choose for which center(s) you wish to make the search
   - If you leave the field empty, you search on all recipients in Scandiatransplant. Exchange obligations will always be displayed.
2. Enter date of birth on the deceased donor (ex. of format 01-Jan-1960)
3. Select/register deceased donor AB0 blood group
4. Select/register the deceased donor HLA – serologic typing
5. Select/register the deceased donor HLA – genomic typing

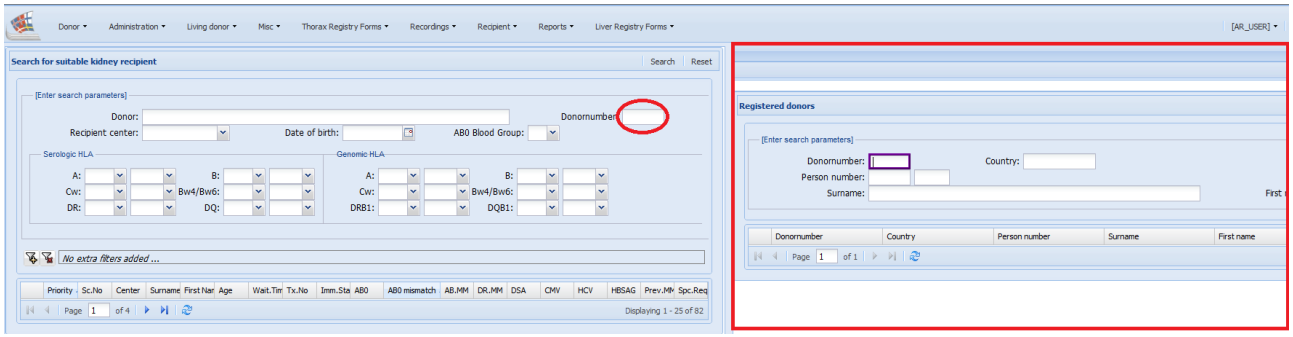
Select between HLA types by pressing the drop down menu, to select a specific type click on it



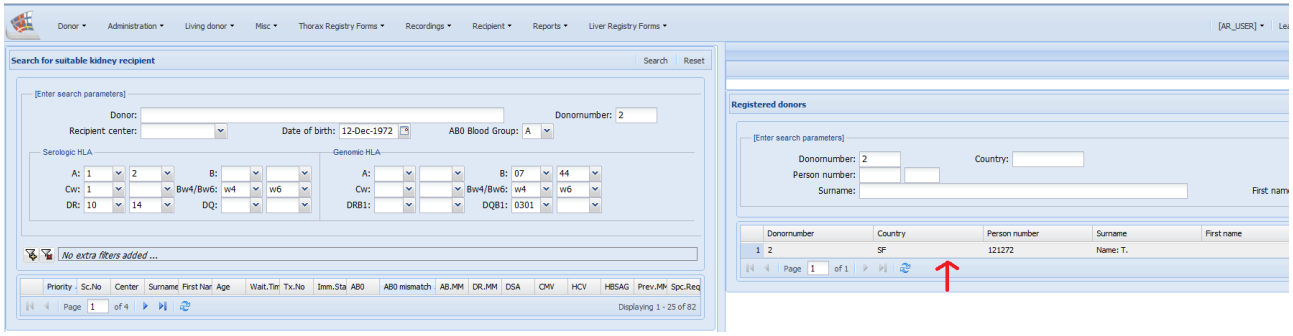
If you start typing, the list will narrow down



3. Search information – donor already registered



If you click in the 'Donor number' field, a new search screen will appear. In this window, you will be able to search for existing donors.

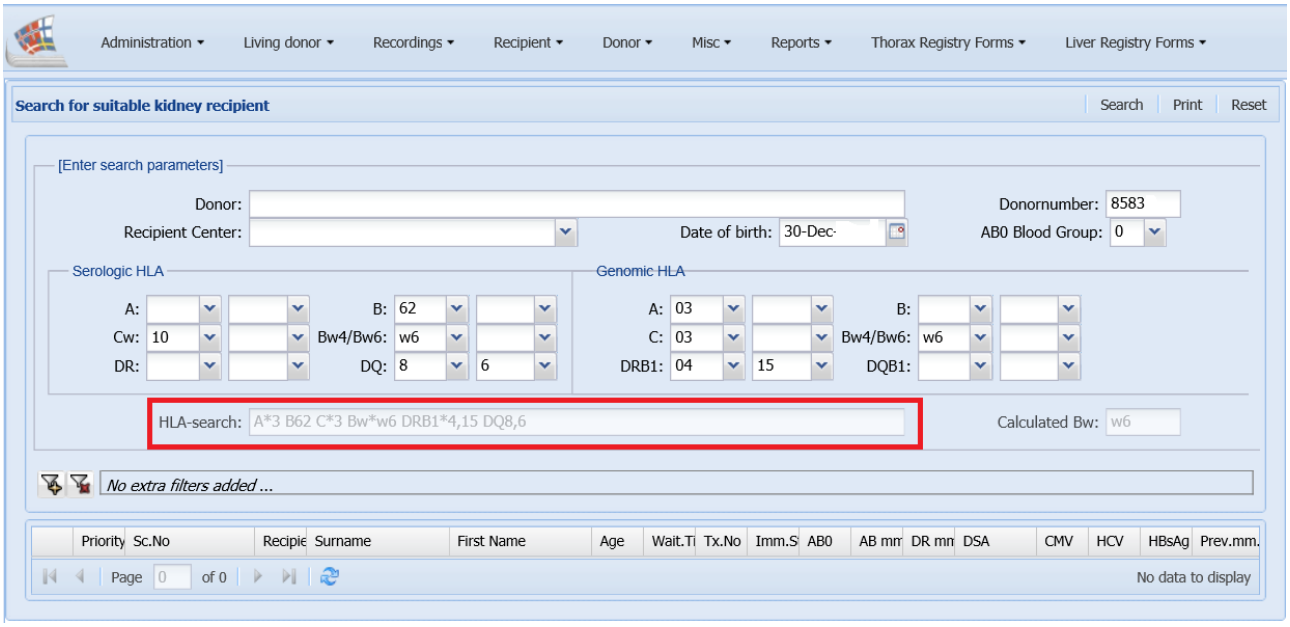


When you have found the specific donor you were looking for, you click on the line and donor birth, AB0 and HLA will be transferred to the search screen to the left.
If you wish to search on recipients belonging to a specific center(s) you must choose 'Recipient center' before searching.

4. Donor HLA for search

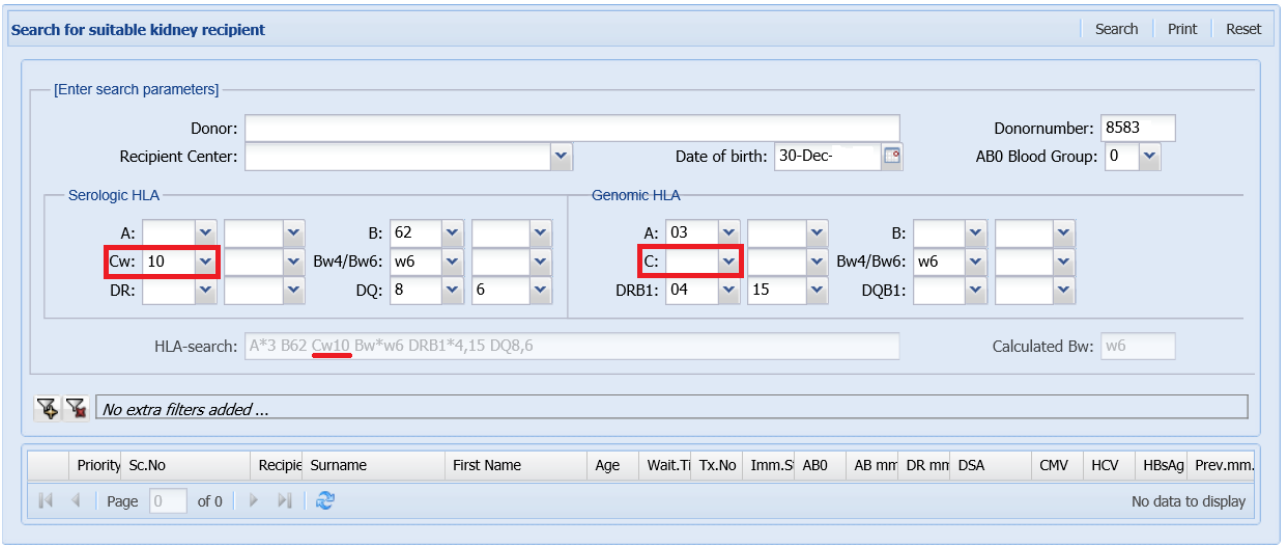
4.1. Serologic and Genomic HLA

It is possible to combine genomic and serologic HLA typing results***. If you enter the same allele both as serologic and genomic typing result, the genomic type will overrule the serologic type.***



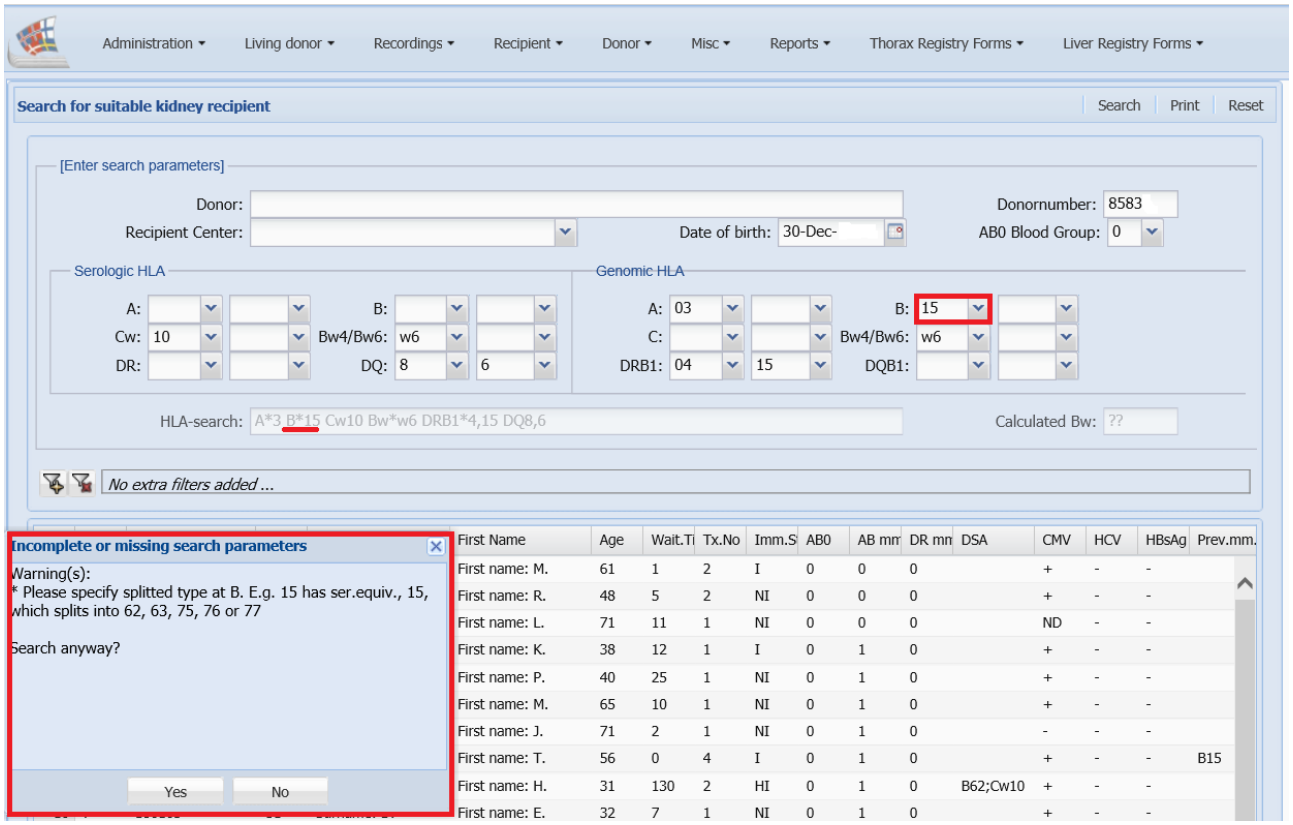
In the line 'HLA-search' HLA types used for search are displayed.
Alleles listed with a * are values collected from the genomic fields.

In the case above, you have to delete the genomic C*03 to search on serologic Cw10

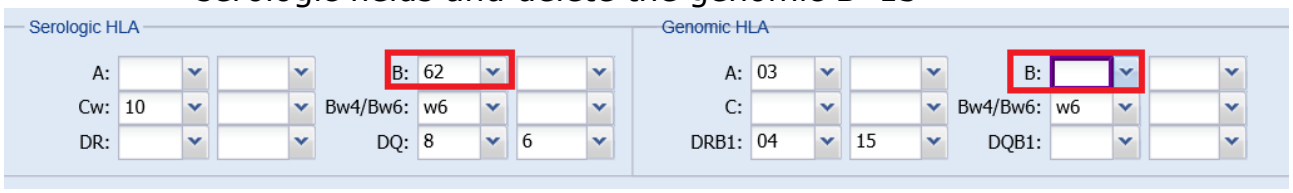


4.2. *Narrow and broad HLA types*

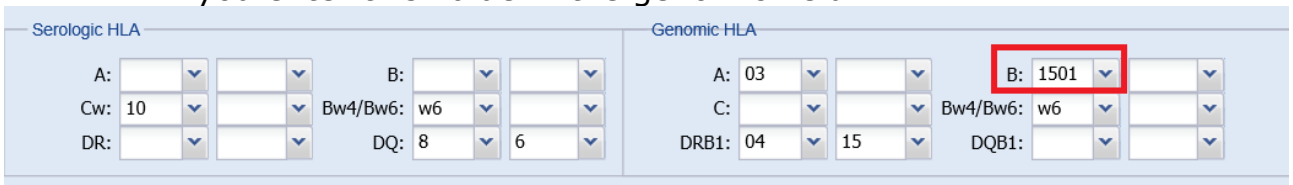
If you enter and search on a broad HLA type, you will get a warning


Administration
Living donor
Recordings
Recipient
Donor
Misc
Reports
Thorax Registry Forms
Liver Registry Forms
Search for suitable kidney recipient
Search
Print
Reset
[Enter search parameters]
Donor:
Donornumber: 8583
Recipient Center:
Date of birth: 30-Dec-
AB0 Blood Group: 0
Serologic HLA
Genomic HLA
A:
B:
Cw: 10
Bw4/Bw6: w6
DR:
DQ: 8 6
A: 03
B: 15
C:
DRB1: 04 15
DQB1:
HLA-search: A*3 B*15 Cw10 Bw*w6 DRB1*4,15 DQ8,6
Calculated Bw: ??
No extra filters added ...
Incomplete or missing search parameters
Warning(s):
* Please specify splitted type at B. E.g. 15 has ser.equiv., 15, which splits into 62, 63, 75, 76 or 77
Search anyway?
Yes
No
First Name
Age
Wait.Ti
Tx.No
Imm.S
AB0
AB mm
DR mm
DSA
CMV
HCV
HBsAg
Prev.mm.
First name: M. 61 1 2 I 0 0 0 + - -
First name: R. 48 5 2 NI 0 0 0 + - -
First name: L. 71 11 1 NI 0 0 0 ND - -
First name: K. 38 12 1 I 0 1 0 + - -
First name: P. 40 25 1 NI 0 1 0 + - -
First name: M. 65 10 1 NI 0 1 0 + - -
First name: J. 71 2 1 NI 0 1 0 - - -
First name: T. 56 0 4 I 0 1 0 + - - B15
First name: H. 31 130 2 HI 0 1 0 B62;Cw10 + - -
First name: E. 32 7 1 NI 0 1 0 + - -

- If you know the serologic equivalent split to B*15 based on your genomic typing for instance B62, you enter this values into the serologic fields and delete the genomic B*15

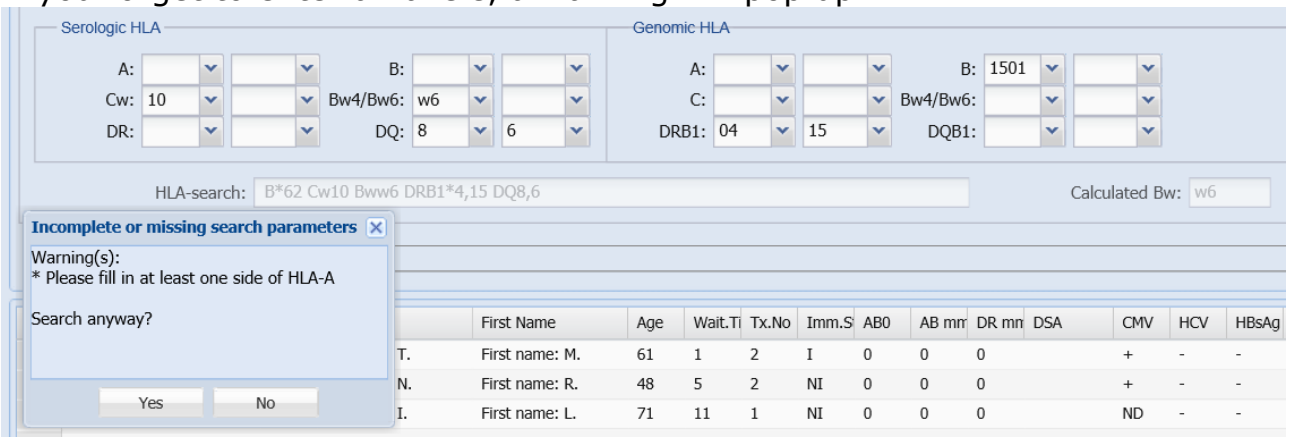


- If you know the genomic high resolution type for instance B*1501 you enter this value in the genomic field



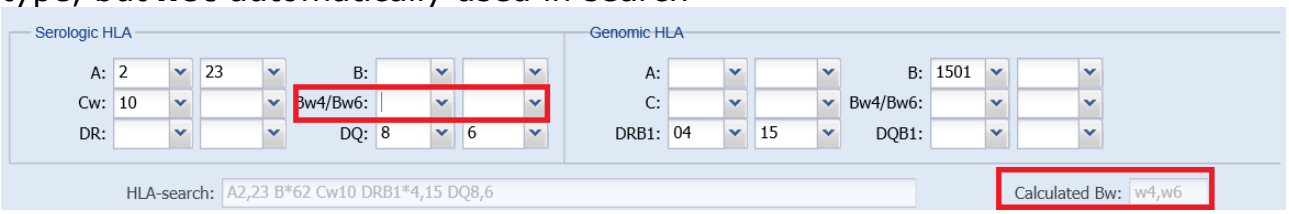
4.3. *Missing HLA type*

If you forget to enter an allele, a warning will pop up

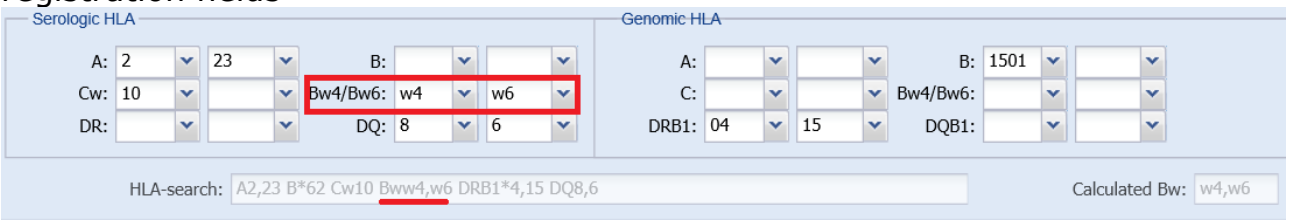

Serologic HLA
A: B:
Cw: 10 Bw4/Bw6: w6
DR: DQ: 8 6
Genomic HLA
A: B: 1501
C: Bw4/Bw6:
DRB1: 04 15 DQB1:
HLA-search: B*62 Cw10 Bww6 DRB1*4,15 DQ8,6
Calculated Bw: w6
Incomplete or missing search parameters
Warning(s):
* Please fill in at least one side of HLA-A
Search anyway?
Yes
No
First Name Age Wait.Ti Tx.No Imm.S AB0 AB mm DR mm DSA CMV HCV HBsAg
T. First name: M. 61 1 2 I 0 0 0 + - -
N. First name: R. 48 5 2 NI 0 0 0 + - -
I. First name: L. 71 11 1 NI 0 0 0 ND - -

4.4. *Calculated Bw4 and Bw6*

Bw4 and Bw6 is automatically calculated from the association to the donor HLA type, but ***not*** automatically used in search

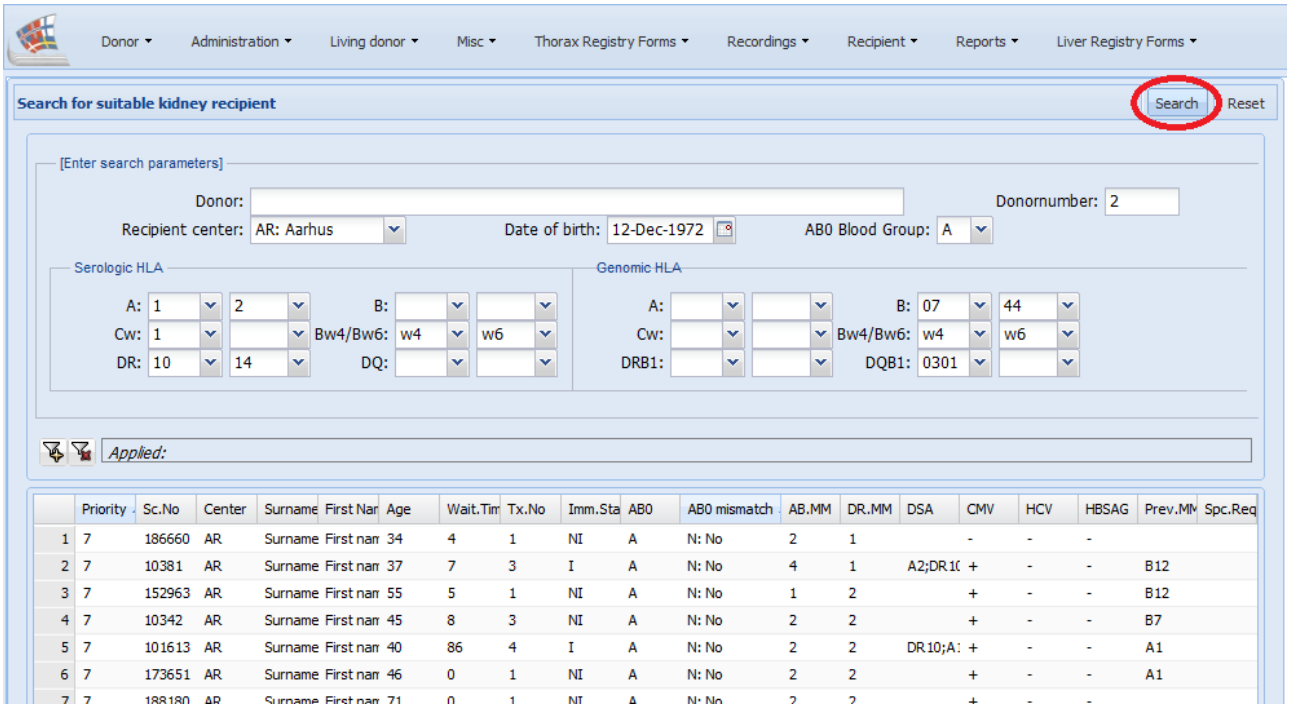


To use the calculated Bw4 and Bw6 you have to enter them into the HLA registration fields

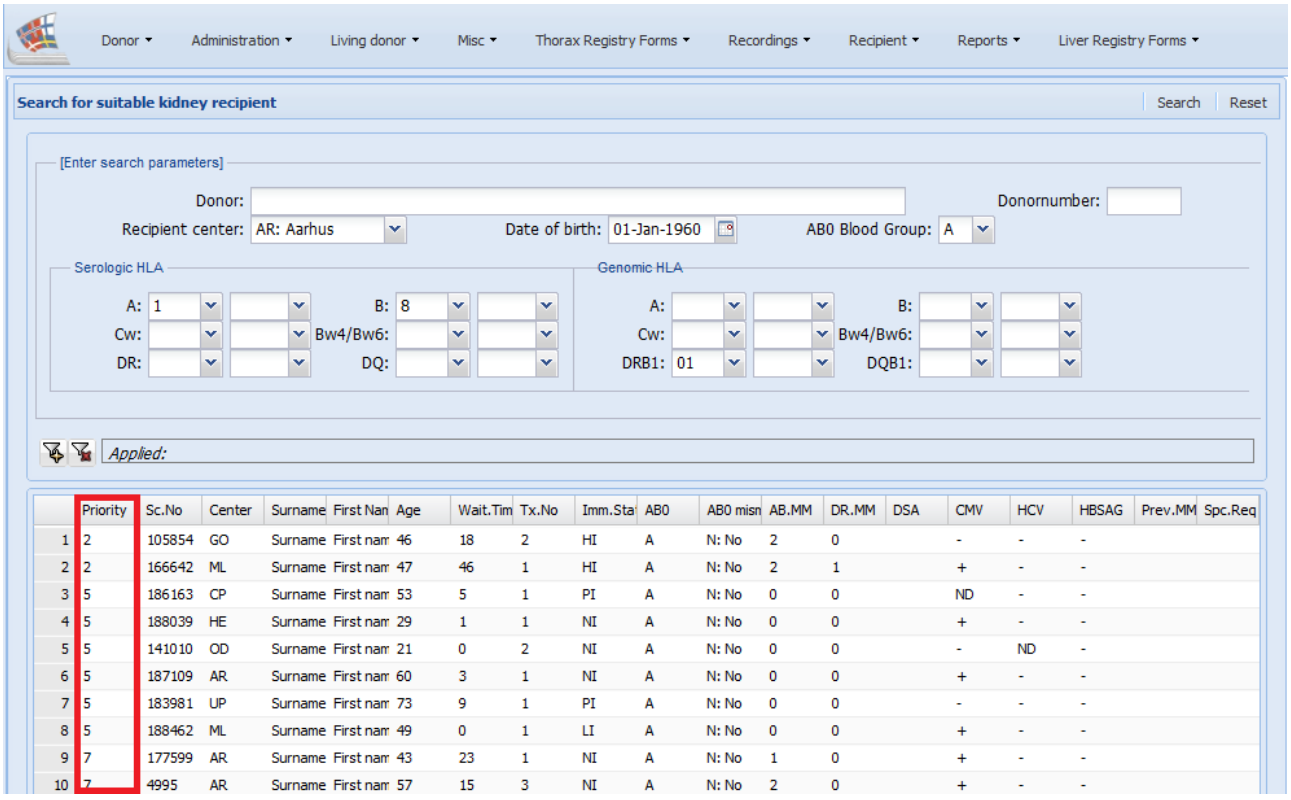


5. Searching

When you have entered the desired donor search information you press 'search'


Donor
Administration
Living donor
Misc
Thorax Registry Forms
Recordings
Recipient
Reports
Liver Registry Forms
Search for suitable kidney recipient
Search
Reset
[Enter search parameters]
Donor:
Donornumber: 2
Recipient center: AR: Aarhus
Date of birth: 12-Dec-1972
AB0 Blood Group: A
Serologic HLA
Genomic HLA
A: 1 2
B:
Cw: 1
Bw4/Bw6: w4 w6
DR: 10 14
DQ:
A:
B: 07 44
Cw:
Bw4/Bw6: w4 w6
DRB1:
DQB1: 0301
Applied:
Priority Sc.No Center Surname First Nan Age Wait.Tim Tx.No Imm.Sta AB0 AB0 mismatch AB.MM DR.MM DSA CMV HCV HBSAG Prev.MM Spc.Req
1 7 186660 AR Surname First nam 34 4 1 NI A N: No 2 1 - - -
2 7 10381 AR Surname First nam 37 7 3 I A N: No 4 1 A2;DR1(+ - - B12
3 7 152963 AR Surname First nam 55 5 1 NI A N: No 1 2 + - - B12
4 7 10342 AR Surname First nam 45 8 3 NI A N: No 2 2 + - - B7
5 7 101613 AR Surname First nam 40 86 4 I A N: No 2 2 DR10;A: + - - A1
6 7 173651 AR Surname First nam 46 0 1 NI A N: No 2 2 + - - A1

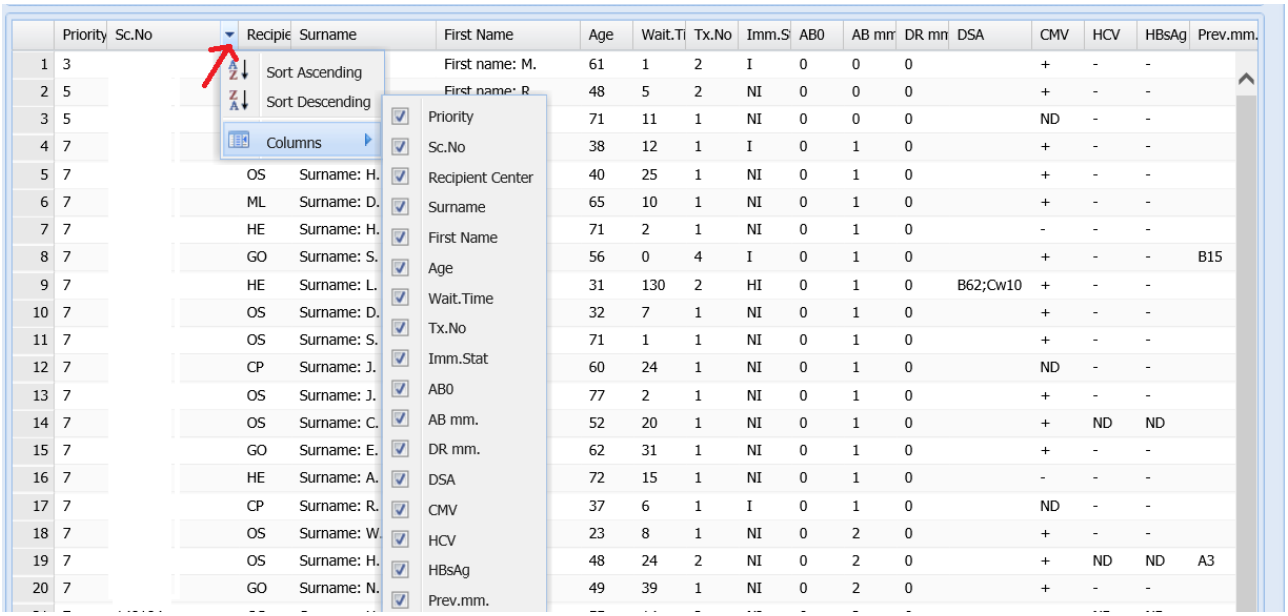
The search result list always lists possible exchange obligations in the top.
Priority 1-5 is the official kidney exchange obligations
Priority 6 is LAMP
Priority 7 is all the rest of the patients on the waiting list. If you have chosen a specific 'Recipient center', only recipients from this center will be displayed.


Donor
Administration
Living donor
Misc
Thorax Registry Forms
Recordings
Recipient
Reports
Liver Registry Forms
Search for suitable kidney recipient
Search
Reset
[Enter search parameters]
Donor:
Donornumber:
Recipient center: AR: Aarhus
Date of birth: 01-Jan-1960
AB0 Blood Group: A
Serologic HLA
Genomic HLA
A: 1
B: 8
Cw:
Bw4/Bw6:
DR:
DQ:
A:
B:
Cw:
Bw4/Bw6:
DRB1: 01
DQB1:
Applied:
Priority Sc.No Center Surname First Nan Age Wait.Tim Tx.No Imm.Sta AB0 AB0 misn AB.MM DR.MM DSA CMV HCV HBSAG Prev.MM Spc.Req
1 2 105854 GO Surname First nam 46 18 2 HI A N: No 2 0 - - -
2 2 166642 ML Surname First nam 47 46 1 HI A N: No 2 1 + - -
3 5 186163 CP Surname First nam 53 5 1 PI A N: No 0 0 ND - -
4 5 188039 HE Surname First nam 29 1 1 NI A N: No 0 0 + - -
5 5 141010 OD Surname First nam 21 0 2 NI A N: No 0 0 - ND -
6 5 187109 AR Surname First nam 60 3 1 NI A N: No 0 0 + - -
7 5 183981 UP Surname First nam 73 9 1 PI A N: No 0 0 - - -
8 5 188462 ML Surname First nam 49 0 1 LI A N: No 0 0 + - -
9 7 177599 AR Surname First nam 43 23 1 NI A N: No 1 0 + - -
10 7 4995 AR Surname First nam 57 15 3 NI A N: No 2 0 + - -

After the exchange priority, the list is as default sorted in the order of matching AB0, followed by lowest number of DR mismatches and then lowest number of AB mismatches.

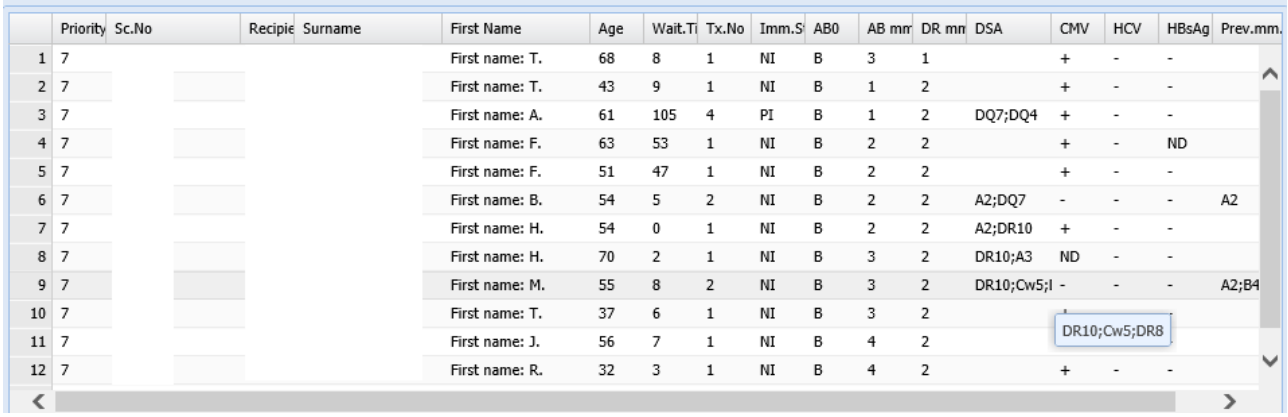
Only patients, which matches Donor AB0 according to the AB0 matching rules, will appear. If you wish to see patients of other AB0 types, you will have to change the donor AB0 type.

By clicking on the header of a column, you are able to sort the results by yourself. As an example if you click on AB.MM, followed by DR.MM the top results will be the lowest number of DR mismatches combined with the lowest number of AB mismatches.

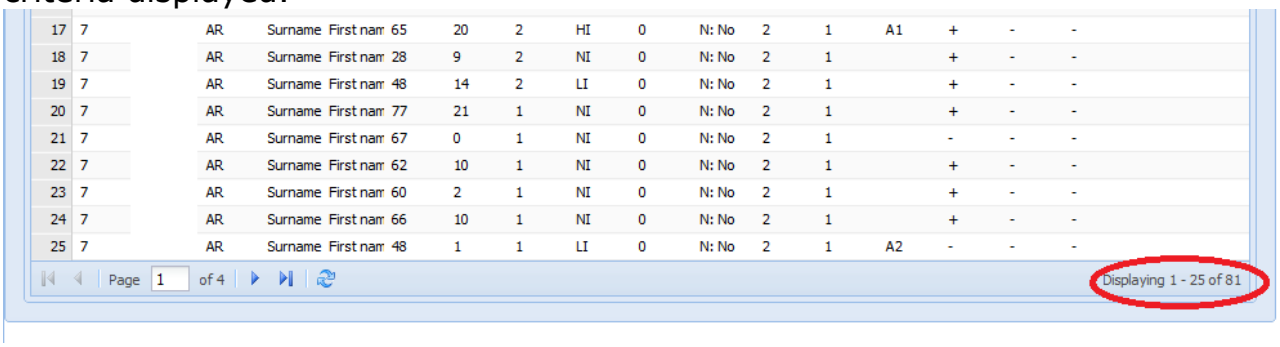


You also have the possibility to remove columns from display, by removing the marking shown above.

If the whole text is not visible, you can either widen the column or as illustrated below place the mouse above the text.

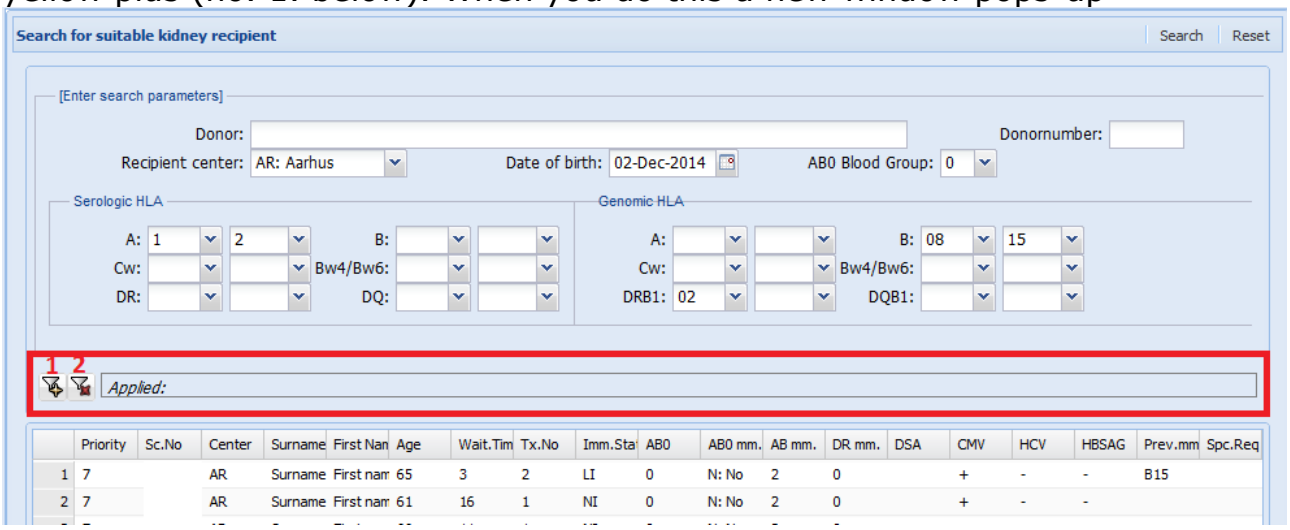


In the bottom of the page is the total number of patients fulfilling the search criteria displayed.

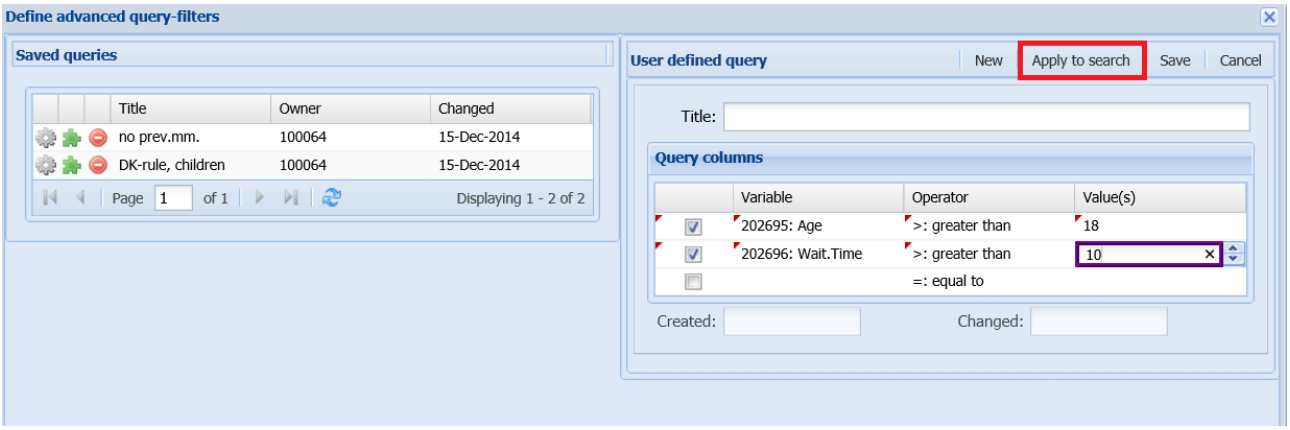


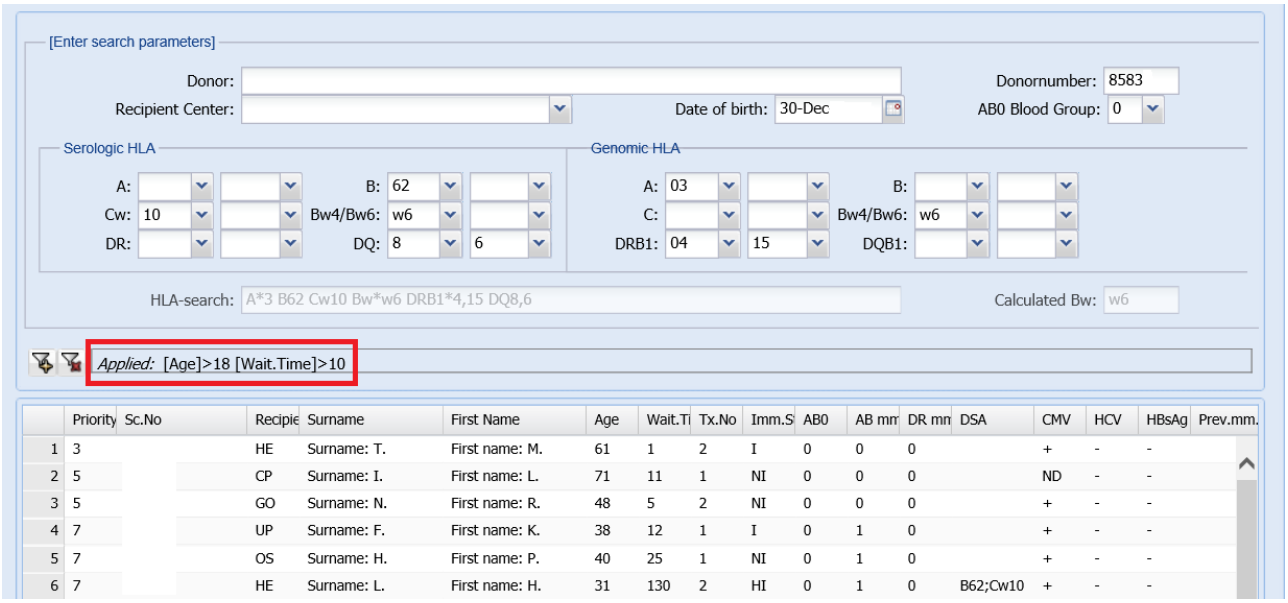
6. Advance search

If you wish to add extra filters to you search click on the filter-button with the yellow plus (no. 1. below). When you do this a new window pops-up



To the right you can make a variety of different filters and apply them to your search. In the example below the filter is set to display all recipients that have been waiting for more than 10 months and age above 18 years.
When you have created all the filters you wish, you click on 'Apply to search'.

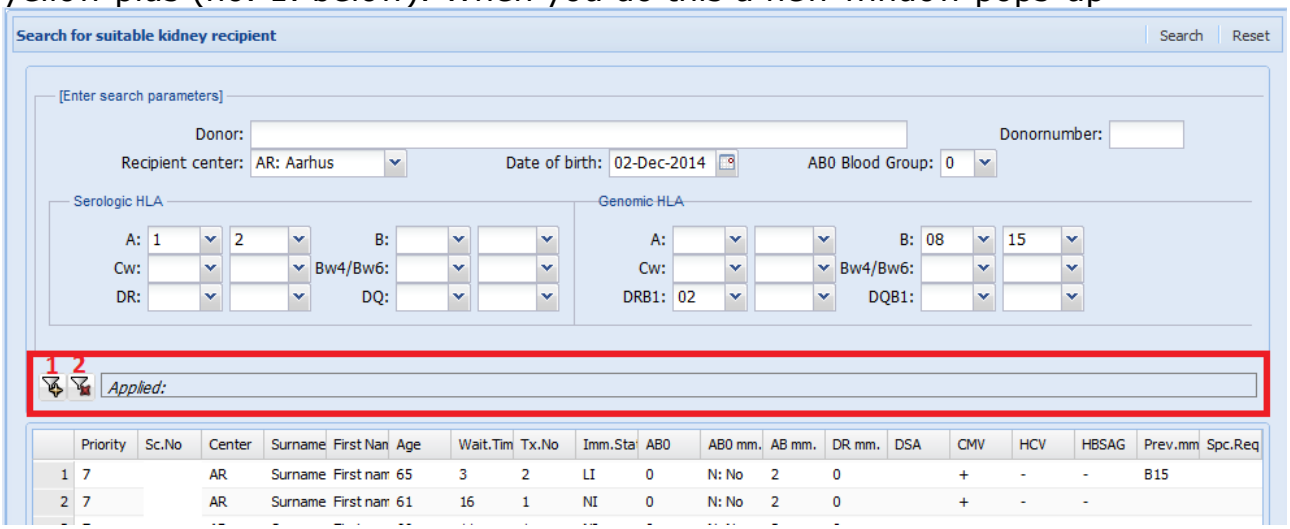



[Enter search parameters]
Donor:
Donornumber: 8583
Recipient Center:
Date of birth: 30-Dec
AB0 Blood Group: 0
Serologic HLA
Genomic HLA
A: B: 62
Cw: 10 Bw4/Bw6: w6
DR: DQ: 8 6
A: 03 B:
C: Bw4/Bw6: w6
DRB1: 04 15 DQB1:
HLA-search: A*3 B62 Cw10 Bw*w6 DRB1*4,15 DQ8,6
Calculated Bw: w6
Applied: [Age]>18 [Wait.Time]>10
Priority Sc.No Recipie Surname First Name Age Wait.Ti Tx.No Imm.S AB0 AB mm DR mm DSA CMV HCV HBsAg Prev.mm.
1 3 HE Surname: T. First name: M. 61 1 2 I 0 0 0 + - -
2 5 CP Surname: I. First name: L. 71 11 1 NI 0 0 0 ND - -
3 5 GO Surname: N. First name: R. 48 5 2 NI 0 0 0 + - -
4 7 UP Surname: F. First name: K. 38 12 1 I 0 1 0 + - -
5 7 OS Surname: H. First name: P. 40 25 1 NI 0 1 0 + - -
6 7 HE Surname: L. First name: H. 31 130 2 HI 0 1 0 B62;Cw10 + - -

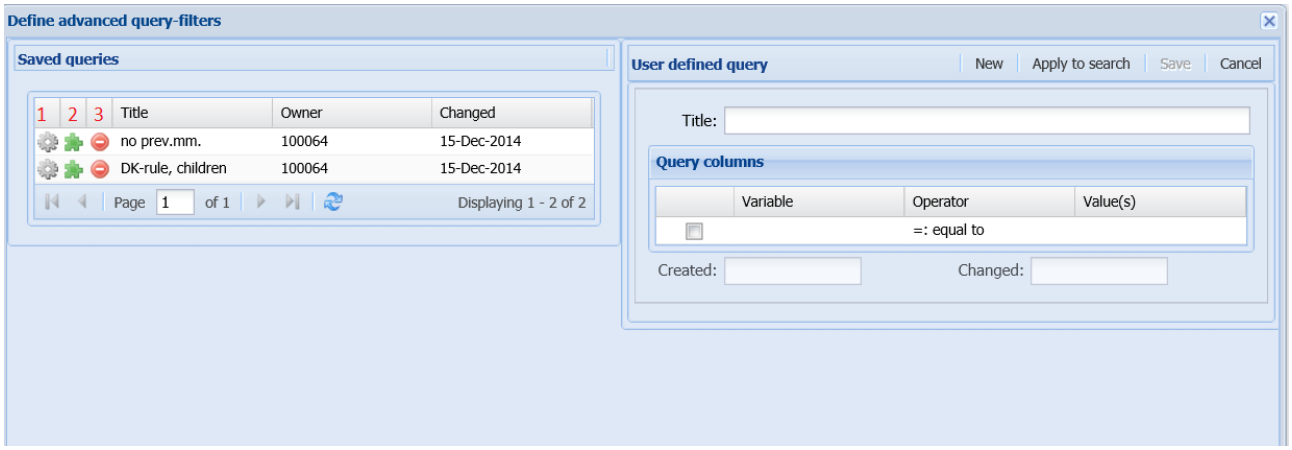
The list of extra filters will be displayed in the search screen. If you wish to remove all extra filters click to the left on the filter marked with the red cross.

7. Advanced search – using predefined profile

If you wish to add extra filters to you search click on the filter-button with the yellow plus (no. 1. below). When you do this a new window pops-up

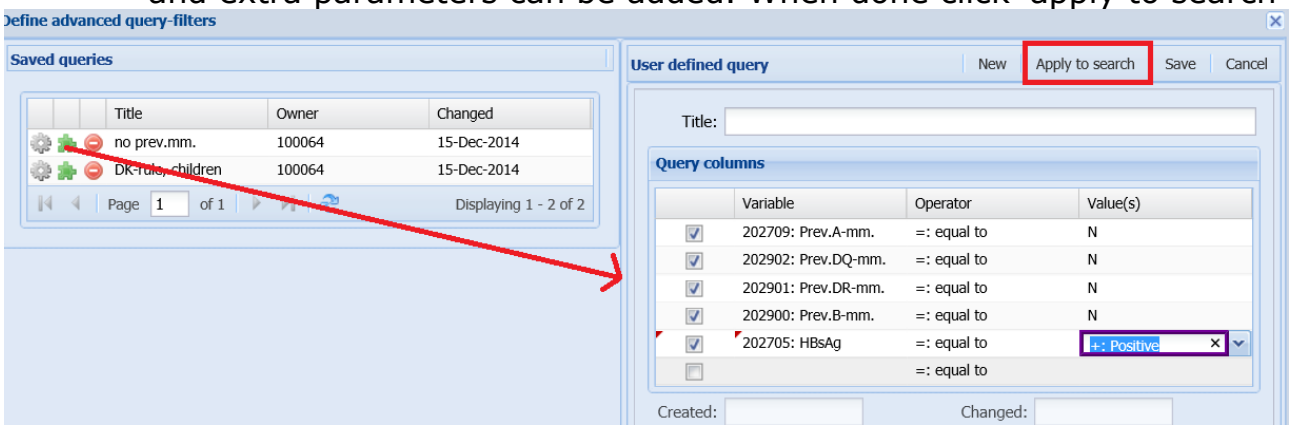

Search for suitable kidney recipient
Search
Reset
[Enter search parameters]
Donor:
Donornumber:
Recipient center: AR: Aarhus
Date of birth: 02-Dec-2014
AB0 Blood Group: 0
Serologic HLA
Genomic HLA
A: 1 2 B:
Cw: Bw4/Bw6:
DR: DQ:
A: B: 08 15
Cw: Bw4/Bw6:
DRB1: 02 DQB1:
1 2
Applied:
Priority Sc.No Center Surname First Nan Age Wait.Tim Tx.No Imm.Sta AB0 AB0 mm. AB mm. DR mm. DSA CMV HCV HBSAG Prev.mm Spc.Req
1 7 AR Surname First nam 65 3 2 LI 0 N: No 2 0 + - - B15
2 7 AR Surname First nam 61 16 1 NI 0 N: No 2 0 + - -

To the left you can choose between predefined advanced search profiles.



You have three options:

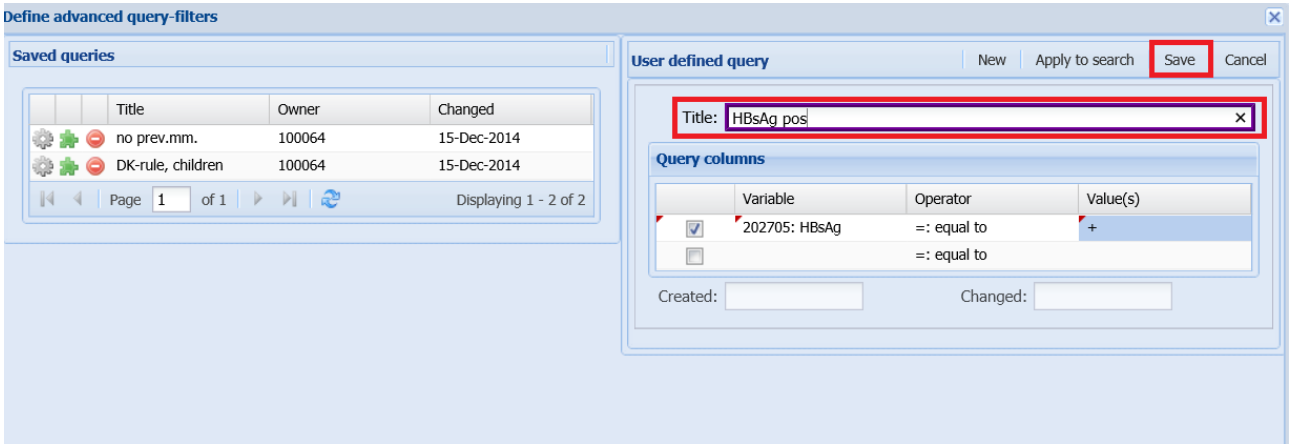
1. 'Use' : The predefined profile is transferred at once and used in search
2. 'Copy filter' : The predefined is copied to the 'edit area' to the right and extra parameters can be added. When done click 'apply to search'



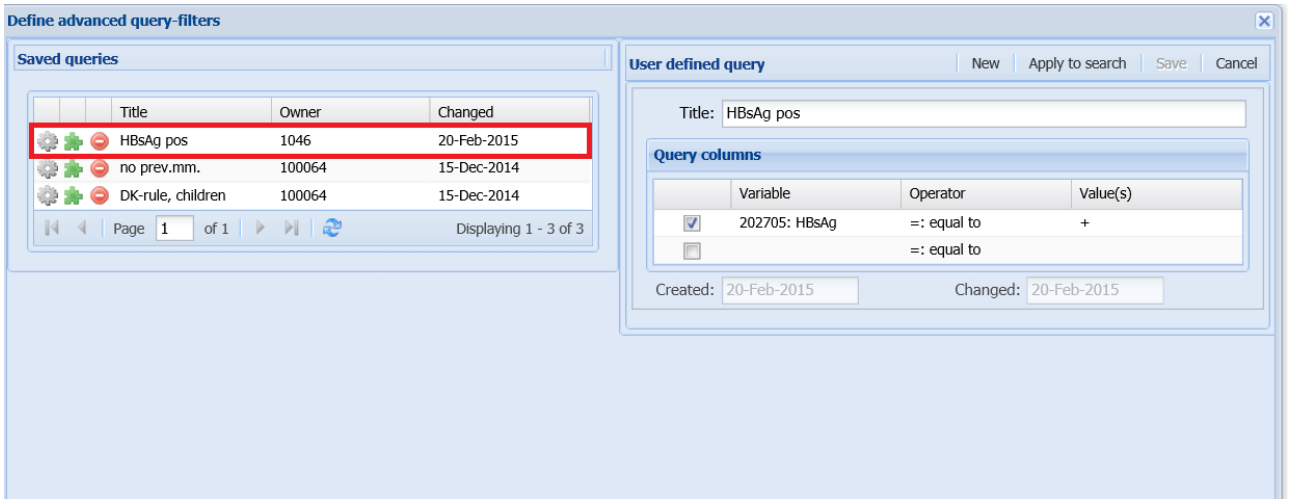
3. 'Delete' : With this button you are able to delete predefined profiles. Profiles defined by the office cannot be deleted.
   If you wish to have more predefined search profiles, which cannot be deleted, please contact the Scandiatransplant office.

8. Advanced search – creating own predefined profile(s)

You can created a variety of saved profiles by selecting and combining the different variables.



When you have defined the variables, give the profile a title and press save. The profile will now be available as a 'saved query' in the future.



Please be aware that saved profiles will be available to all users and that all users will be able to delete them.
If you wish to have more predefined search profiles, which cannot be deleted, please contact the Scandiatransplant office.

9. Print

If you wish to print a selected list of patients, click on the 'Print' button and a pdf will be generated, which can be printed (or saved).